

Request for Tender

for

**Annual Inspection, Cleaning, Lubrication and
Maintenance of Biogas Digester Trains**

Request for Tender No.: **2017-T-25**
Issued: **Tuesday August 22, 2017**
Submission Deadline: **Thursday September 14, 2017**
Submission Location: **THE PURCHASING OFFICE
The Regional Municipality of Niagara
Campbell West Building
1815 Sir Isaac Brock Way
Thorold, Ontario, L2V 4T7**

TABLE OF CONTENTS

Part 1 – Invitation and Submission Instructions	1
1.1 Invitation to Bidders	1
1.2 Niagara Region’s Procurement Bylaw	1
1.3 Niagara Region Contact.....	1
1.4 Accommodations for Bidders with Disabilities.....	2
1.5 Contract for Deliverables	2
1.6 RFT Timetable	2
1.7 Site Inspection	3
1.8 Bid Submission	3
Part 2 – Evaluation of Bids	5
2.1 Stages of Bid Evaluation	5
2.2 Stage I – Mandatory Requirements	5
2.3 Stage II – Pricing.....	5
2.4 Selection of Lowest Compliant Bidder	5
Part 3 – Terms and Conditions of the RFT Process	6
3.1 General Information and Instructions.....	6
3.2 Communication after Issuance of RFT.....	7
3.3 Finalization of Contract, Notification and Debriefing	8
3.4 Conflict of Interest and Prohibited Conduct.....	9
3.5 Confidential Information	12
3.6 Reserved Rights, Limitation of Liability and Governing Law	12
Appendix A – Contract Terms and Conditions	15
Appendix B – Form of Tender	18
Appendix C – Pricing	21
Appendix D – RFT Particulars	24
A. The Deliverables	24
B. Material Disclosures.....	26
C. Mandatory Requirements.....	26
Appendix E – Conditions of Award	28
Appendix F – Bid Irregularities	29
Appendix G – Equipment List by Location	32

Part 1 – Invitation and Submission Instructions

1.1 Invitation to Bidders

This Request for Tender (“RFT”) is an invitation by The Regional Municipality of Niagara (“Niagara Region”) to prospective bidders to submit bids for the provision of **Annual Inspection, Cleaning, Lubrication and Maintenance of Biogas Digester Trains**, as further described in Appendix D – RFT Particulars (the “Deliverables”).

This tender provides for the Annual Inspection, Cleaning, Lubrication and Maintenance of Biogas Digester Trains for Eight (8) Waste Water Treatment Plants in the Niagara Region.

Please refer to Appendix D – RFT Particulars for a detailed description of the Deliverables, material disclosures and mandatory requirements.

Please refer to Appendix E – Conditions of Award for requirements that the bidder must satisfy if selected to enter into a contract for the Deliverables.

1.2 Niagara Region’s Procurement Bylaw

Niagara Region’s procurement processes are governed by its [Procurement By-Law No. 02-2016](http://www.niagararegion.ca/government/bylaws/pdf/2016/Procurement-By-law-02-2016.pdf) (<http://www.niagararegion.ca/government/bylaws/pdf/2016/Procurement-By-law-02-2016.pdf>) (“Niagara Region’s By-law”). It is the bidder’s responsibility to become familiar with and comply with Niagara Region’s By-law.

If the terms of the RFT are more restrictive than the terms of Niagara Region’s By-law, the terms of the RFT will prevail.

1.3 Niagara Region Contact

For the purposes of this procurement process, the “Niagara Region Contact” shall be:

Vicki Lafford-Field

Purchasing Agent

Procurement and Strategic Acquisitions, Enterprise Resource Management Services

Tel: 905-980-6000 ext. 3659

Vicki.Lafford-Field@niagararegion.ca

Bidders and their representatives are not permitted to contact any employees, officers, agents, elected or appointed officials or other representatives of Niagara Region, other than the Niagara Region Contact, concerning matters regarding this RFT. Failure to adhere to this rule may result in the disqualification of the bidder and the rejection of the bidder’s bid.

PART 1 – INVITATION AND SUBMISSION INSTRUCTIONS

1.4 Accommodations for Bidders with Disabilities

Niagara Region is committed to providing equal treatment to people with disabilities with respect to the use and benefit of municipal services, programs and goods in a manner that respects their dignity and that is equitable in relation to the broader public. In accordance with the *Ontario Human Rights Code*, *Ontarians with Disabilities Act, 2001* (ODA) and *Accessibility for Ontarians with Disabilities Act, 2005* (AODA), Niagara Region will accommodate for a disability, ensuring full and equitable participation throughout the RFT process.

If a bidder requires this RFT in a different format to accommodate a disability, the bidder must contact the Niagara Region Contact as soon as possible and in any event prior to the Submission Deadline. The RFT in the different format will be issued only to the requesting bidder and all addenda will be issued in such different format only to the requesting bidder.

1.5 Contract for Deliverables

The selected bidder will be required to enter into a contract with Niagara Region for the provision of the Deliverables based on the Contract Terms and Conditions set out in Appendix A to the RFT (the “Contract”). It is Niagara Region’s intention to enter into the Contract with only one (1) legal entity. The term of the Contract is to be for a period of **three (3) years**, with an option in favour of Niagara Region to extend the Contract on the same terms and conditions for an additional term of up to three (3) years.

1.6 RFT Timetable

Item	Date
Issue Date of RFT	Tuesday August 22, 2017
Mandatory Site Inspection (see details below)	9:30 am on Tuesday August 29, 2017
Deadline for Questions	Friday September 1, 2017
Deadline for Issuing Addenda	Wednesday September 6, 2017
Submission Deadline	2:00:00 pm on Thursday September 14, 2017
Public Opening 1815 Sir Isaac Brock Way, Thorold	2:15:00 pm on Thursday September 14, 2017
Anticipated Date for Entering into Contract	October 1, 2017

The RFT timetable is tentative only, and may be changed by Niagara Region at any time.

PART 1 – INVITATION AND SUBMISSION INSTRUCTIONS

1.7 Mandatory Site Inspection (Information Session)

The site inspection (Information Session) will be held on **Tuesday August 29, 2017** commencing at **9:30 am** local time at: **Baker Road WWTP, 347 Baker Rd. ,Grimsby**
It is the bidder's responsibility to visit the job site and to examine all existing conditions to determine the amount and character of the work involved and to take their own measurements and make their own calculations prior to submitting a bid. No allowance will subsequently be made for any errors or omissions on the part of any bidder.

Attendance at the site inspection is **mandatory**. Bidders will be required to sign an attendance sheet confirming their attendance at the mandatory site inspection. Only bids received from bidders who attend the site inspection, sign the attendance sheet and perform a complete viewing of the site during the scheduled tour shall be considered. Bidders who arrive after the site inspection has commenced may not be permitted to sign the attendance sheet or complete the site inspection.

If Bidders wish to view other WWTP Locations indicated in the Tender, please request via Niagara Region Contact to set up times and viewing.

1.8 Bid Submission

1.8.1 Bids Must Be Submitted to Prescribed Location

Bids must be submitted at:

THE PURCHASING OFFICE
The Regional Municipality of Niagara
Campbell West Building
1815 Sir Isaac Brock Way
Thorold, Ontario, L2V 4T7

1.8.2 Bids Must Be Submitted on Time

Bids must be submitted at the location set out above on or before the Submission Deadline. Bids submitted after the Submission Deadline will be rejected. Onus and responsibility rests solely with the bidder to deliver its bid to the exact location (including floor, if applicable) indicated in the RFT on or before the Submission Deadline. Niagara Region does not accept any responsibility for submissions delivered to any other location by the bidder or its delivery agents. Bidders are advised to make submissions well before the deadline. Bidders making submissions near the deadline do so at their own risk.

In the event of any question regarding the timely receipt of any submission, the time on the clock designated by the Manager of Purchasing Services will absolutely prevail over any other

PART 1 – INVITATION AND SUBMISSION INSTRUCTIONS

timepiece regardless of any discrepancies between the time on the Manager of Purchasing Services' designated clock and actual time.

1.8.3 Bids Must Be Submitted in Prescribed Format

Bidders must submit **one (1)** hard copies of their bid enclosed in a sealed envelope that is prominently marked with the RFT title and number (see RFT cover page) and the full legal name and return address of the bidder.

1.8.4 Bid Submission Content

Bidders must include all forms and other documents or information listed under Section C – Mandatory Requirements in Appendix D – RFT Particulars. Other than inserting the information requested, a bidder may not make any changes to any of the required forms included in this RFT. Any bid containing any such changes, whether on the face of the form or elsewhere in the bid, may be disqualified. Irregularities in bid submissions will be addressed in accordance with Appendix F – Bid Irregularities.

1.8.5 Amendment of Bids

Bidders may amend their bids prior to the Submission Deadline by submitting the amendment in a sealed package prominently marked with the RFT title and number and the full legal name and return address of the bidder to the location set out above. Any amendment should clearly indicate which part of the bid the amendment is intended to amend or replace.

1.8.6 Withdrawal of Bids

Bidders may withdraw their bids prior to the Submission Deadline. To withdraw a bid, a notice of withdrawal must be sent to the Niagara Region Contact and must be signed by an authorized representative of the bidder. Withdrawn bids will be returned unopened to the bidder.

1.8.7 Bids Irrevocable after Submission Deadline

Bids shall be irrevocable for a period of **ninety (90)** running from the moment that the Submission Deadline passes.

[End of Part 1]

Part 2 – Evaluation of Bids

2.1 Stages of Bid Evaluation

Niagara Region will conduct the evaluation of bids in accordance with the stages set out below.

2.2 Stage I – Mandatory Requirements

Stage I will consist of a review to determine which bids comply with all of the mandatory requirements. Bids that do not comply with all of the mandatory requirements as of the Submission Deadline will, subject to the express and implied rights of Niagara Region, be disqualified and not evaluated further. The mandatory requirements are listed and described in Section C of Appendix D – RFT Particulars.

2.3 Stage II – Pricing

Upon completion of Stage I, the pricing submitted by each compliant bidder will be evaluated in accordance with Appendix C – Pricing Form.

2.4 Selection of Lowest Compliant Bidder

Subject to Niagara Region's reserved rights, the compliant bidder with the lowest pricing will be selected to enter into the Contract in accordance with Part 3.

[End of Part 2]

Part 3 – Terms and Conditions of the RFT Process

3.1 General Information and Instructions

3.1.1 RFT Incorporated into Bid

All of the provisions of this RFT are deemed to be accepted by each bidder and incorporated into each bidder's bid. A bidder who submits conditions, options, variations or contingent statements to the terms as set out in this RFT, including the terms of the Contract in Appendix A, either as part of its bid or after receiving notice of selection, may be disqualified. If a bidder is not disqualified despite such changes or qualifications, the provisions of this RFT, including the terms of the Contract set out in Appendix A, will prevail over any such changes or qualifications in the bid.

3.1.2 Bidders to Follow Instructions and Submit Only Requested Information

Bidders should structure their bids in accordance with the instructions in this RFT. Information must be provided in the form requested. Niagara Region will not consider any supplementary information or documents that bidders have not been instructed to submit.

3.1.3 Bids in English

All bids are to be in English only.

3.1.4 Information in RFT Only an Estimate

Niagara Region and its advisers make no representation, warranty or guarantee as to the accuracy of the information contained in this RFT or issued by way of addenda. Any quantities shown or data contained in this RFT or provided by way of addenda are estimates only and are for the sole purpose of indicating to bidders the general scale and scope of the Deliverables. It is the bidder's responsibility to obtain all the information necessary to prepare a bid in response to this RFT.

3.1.5 Examination of Site

Bidders are required to satisfy themselves as to existing conditions of the site and must take all site conditions into account in preparing their bids.

3.1.6 Bidders Shall Bear Their Own Costs

The bidder shall bear all costs associated with or incurred in the preparation and submission of its bid.

3.1.7 Bid to Be Retained by Niagara Region

Except as otherwise provided in this RFT, Niagara Region is under no obligation to return the bid or any accompanying documentation submitted by a bidder.

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

3.1.8 Trade Agreements

Bidders should note that procurements falling within the scope of Chapter 5 of the Canadian Free Trade Agreement are subject to that trade agreement, but the rights and obligations of the parties shall be governed by the specific terms of this RFT.

3.1.9 No Guarantee of Volume of Work or Exclusivity of Contract

Notwithstanding section 1.5, Niagara Region makes no guarantee of the value or volume of work to be assigned to the successful bidder. The Contract will not be an exclusive contract for the provision of the described Deliverables. Niagara Region may contract with others for goods and services the same as or similar to the Deliverables or may obtain such goods and services internally.

3.2 Communication after Issuance of RFT

3.2.1 Bidders to Review RFT

Bidders shall promptly examine all of the documents comprising this RFT, and

- a) shall report any errors, omissions or ambiguities; and
- b) may direct questions or seek additional information

to the Niagara Region Contact on or before the Deadline for Questions. All communications must be made in writing by email and shall be deemed to be received once the email has entered into the Niagara Region Contact's email inbox. No such communications are to be directed to anyone other than the Niagara Region Contact, and Niagara Region shall not be responsible for any information provided by or obtained from any source other than the Niagara Region Contact. Niagara Region is under no obligation to provide additional information, but may do so in its sole and absolute discretion. It is the responsibility of the bidder to seek clarification from the Niagara Region Contact on any matter it considers to be unclear. Niagara Region shall not be responsible for any misunderstanding on the part of the bidder concerning this RFT or its process.

3.2.2 All New Information to Bidders by Way of Addenda

This RFT may be amended only by an addendum in accordance with this section. If Niagara Region, for any reason, determines that it is necessary to provide additional information relating to this RFT, such information will be communicated to all bidders by addenda issued in the same manner that this RFT was originally issued. Each addendum forms an integral part of this RFT. Such addenda may contain important information, including significant changes to this RFT. Bidders are responsible for obtaining all addenda issued by Niagara Region. In the Form of Tender (Appendix B), bidders should confirm their receipt of all addenda by setting out the number of each addendum in the space provided.

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

3.2.3 Post-Deadline Addenda and Extension of Submission Deadline

If Niagara Region determines that it is necessary to issue an addendum after the Deadline for Issuing Addenda, Niagara Region may extend the Submission Deadline for a reasonable period of time.

3.2.4 Verify, Clarify and Supplement

When evaluating bids, Niagara Region may request further information from the bidder or third parties in order to verify, clarify or supplement the information provided in the bidder's bid. The response received by Niagara Region shall, if accepted by Niagara Region, form an integral part of that bidder's bid.

3.3 Finalization of Contract, Notification and Debriefing

3.3.1 Selection of Bidder and Finalization of Contract

Notice of selection by Niagara Region to the selected bidder shall be in writing. The selected bidder shall enter into the Contract in the form attached as Appendix A to this RFT and satisfy any other applicable conditions, as set out in Appendix E – Conditions of Award of this RFT, within fourteen (14) days of notice of selection. This provision is solely for the benefit of Niagara Region and may be waived by Niagara Region in its sole and absolute discretion.

3.3.2 Failure to Enter into Contract

In addition to all other remedies available to Niagara Region, if a selected bidder fails to enter into the Contract or satisfy any other applicable conditions, as set out in Appendix E – Conditions of Award of this RFT, within fourteen (14) days of notice of selection, Niagara Region may, in its sole and absolute discretion and without incurring any liability, withdraw the selection of that bidder and either proceed with the selection of another bidder or cancel the RFT process.

3.3.3 Notification to Other Bidders

Once the Contract is entered into by Niagara Region and a bidder, the other bidders may be notified directly in writing and shall be notified by public posting in the same manner that this RFT was originally posted of the outcome of the procurement process.

3.3.4 Debriefing

Bidders may request a debriefing after receipt of a notification of the outcome of the procurement process. All requests must be in writing to the Niagara Region Contact and must be made within thirty (30) days of such notification. The intent of the debriefing information session is to aid the bidder in presenting a better bid in subsequent procurement opportunities. Any debriefing provided is not for the purpose of providing an opportunity to challenge the procurement process or its outcome.

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

3.3.5 Bid Dispute Resolution Procedure

If a bidder wishes to challenge the RFT process, the bidder must submit a written objection providing sufficient detail regarding their complaint (a “Substantive Objection”) to the Director of Procurement and Strategic Acquisitions within seven (7) days from the conclusion of the bid opening process. Niagara Region will respond to a Substantive Objection in accordance with the following steps:

- a) The Director of Procurement and Strategic Acquisitions will arrange a debriefing with the bidder to explain the RFT process that led to the selection of the successful bidder.
- c) The Director of Procurement and Strategic Acquisitions will investigate the complaint and will make a recommendation to the Commissioner of Corporate Services/Treasurer, CAO or Council, as appropriate.
- d) Should the bidder continue to have concerns about the RFT process and is not satisfied with the decision, the bidder may then request, in writing to the Commissioner of Corporate Services/Treasurer, a mediator, to assist in resolving any outstanding issues between the bidder and Niagara Region.
- e) The recommended mediator will be approved by both the bidder and Niagara Region.
- f) The mediator shall make his/her best efforts to assist the parties to reach a mutually acceptable solution.
- g) Costs for the mediator shall be equally shared by Niagara Region and the bidder.
- h) Any resolution reached through the mediation process shall remain confidential if requested by either of the parties.

3.4 Conflict of Interest and Prohibited Conduct

3.4.1 Conflict of Interest

Niagara Region may disqualify a bidder for any conduct, situation or circumstances, determined by Niagara Region, in its sole and absolute discretion, to constitute a Conflict of Interest.

For the purposes of this RFT, the term “Conflict of Interest” includes, but is not limited to, any situation or circumstance where:

- a) in relation to the RFT process, the bidder has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to (i) having, or having access to, confidential information of Niagara Region in the preparation of

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

its bid that is not available to other bidders, (ii) communicating with any person with a view to influencing preferred treatment in the RFT process (including but not limited to the lobbying of decision makers involved in the RFT process), or (iii) engaging in conduct that compromises, or could be seen to compromise, the integrity of the RFT process; or

- i) in relation to the performance of its contractual obligations contemplated in the contract that is the subject of this procurement, the bidder's other commitments, relationships or financial interests (i) could, or could be seen to, exercise an improper influence over the objective, unbiased and impartial exercise of its independent judgement, or (ii) could, or could be seen to, compromise, impair or be incompatible with the effective performance of its contractual obligations.

For the purposes of section (a) (i) above, bidders should specifically consider whether there were any individuals (employees, advisers, or individuals acting in any other capacity) who (a) participated in the preparation of the bid; **AND** (b) were employees of Niagara Region within twelve (12) months prior to the Submission Deadline.

In addition to any other situation that may constitute a conflict of interest, suppliers will not be permitted to submit a bid if the supplier participated in the preparation of the RFT, and any such bid submitted will be disqualified.

3.4.2 Disqualification for Prohibited Conduct

Niagara Region may disqualify a bidder or terminate the Contract (in compliance with the applicable Terms and Conditions) if, in the sole and absolute determination of Niagara Region, the bidder has engaged in any conduct prohibited by this RFT or Niagara Region's By-law.

3.4.3 Prohibited Bidder Communications

A bidder shall not engage in any communications that could constitute a Conflict of Interest and should take note of the Conflict of Interest declaration set out in the Form of Tender (Appendix B).

3.4.4 Bidder Not to Communicate with Media

A bidder may not at any time directly or indirectly communicate with the media in relation to this RFT or any Contract entered into pursuant to this RFT without first obtaining the written permission of the Niagara Region Contact.

3.4.5 No Lobbying

A bidder, including any agent or representative of a bidder, may not, in relation to this RFT or the evaluation and selection process, engage directly or indirectly in any form of political or other

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

lobbying whatsoever to advocate for any interest that may be affected by the RFT process or to influence the outcome of the RFT process.

In accordance with Niagara Region's Procurement By-law:

- a) "Lobbying" means the advocacy of an interest that is affected, actually or potentially by the procurement process or individuals involved in the procurement process including seeking to influence the outcome of the procurement process or subsequent award of a contract.
- b) Bidders, their staff members, or anyone involved in preparing a bid, shall not engage in any form of political or other lobbying whatsoever or seek to influence the outcome of the procurement process or subsequent award. This restriction extends to all of Niagara Region's staff and anyone involved in preparing the RFT or participating in the bid evaluation process, and members of Council.
- c) Niagara Region may reject any bid by a bidder that engages in lobbying, without further consideration, and may terminate that bidder's right to continue in the procurement process.
- d) During a procurement process, all communications shall be made through the Niagara Region Contact. No bidder or person acting on behalf of a bidder or group of bidders, shall contact any elected official, consultant or any employee of Niagara Region to attempt to seek information or to influence the outcome of the procurement process.
- e) Elected officials shall refer any inquiries about a procurement process to Niagara Region's Commissioner of Corporate Services/Treasurer.

3.4.6 Illegal or Unethical Conduct

Bidders shall not engage in any illegal business practices, including activities such as bid-rigging, price-fixing, bribery, fraud, coercion or collusion. Bidders shall not engage in any unethical conduct, including lobbying, as described above, or other inappropriate communications, offering gifts to any employees, officers, agents, elected or appointed officials or other representatives of Niagara Region, deceitfulness, submitting bids containing misrepresentations or other misleading or inaccurate information, or any other conduct that compromises or may be seen to compromise the competitive process provided for in this RFT.

3.4.7 Past Performance or Past Conduct

Niagara Region may prohibit a supplier from participating in a procurement process based on past performance or based on inappropriate conduct in a prior procurement process. Such inappropriate conduct shall include but not be limited to the following: (a) illegal or unethical conduct as described above; (b) the refusal of the supplier to honour its pricing or other

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

commitments made in its bid; (c) failure to disclose a conflict of interest or (d) any other conduct, situation or circumstance described in Niagara Region's By-law.

3.5 Confidential Information

3.5.1 Confidential Information of Niagara Region

All information provided by or obtained from Niagara Region in any form in connection with this RFT either before or after the issuance of this RFT

- a) is the sole property of Niagara Region and must be treated as confidential;
- b) is not to be used for any purpose other than replying to this RFT and the performance of the Contract;
- c) must not be disclosed without prior written authorization from Niagara Region; and
- d) shall be returned by the bidders to Niagara Region immediately upon the request of Niagara Region.

3.5.2 Confidential Information of Bidder

Bidders are advised that the disclosure of information received in bids or otherwise relevant to the RFT process will be in accordance with the provisions of all relevant access to information and privacy legislation including primarily the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c. M.56, as amended ("*MFIPPA*"). Bidders should identify any confidential information in their bids. Niagara Region will make reasonable efforts to maintain the confidentiality of such information, subject to its disclosure requirements under *MFIPPA* or any disclosure requirements imposed by law or by order of a court or tribunal. Bidders are advised that their bids will, as necessary, be disclosed, on a confidential basis, to advisers retained by Niagara Region to advise or assist with the RFT process. If a bidder has any questions about the collection and use of personal information pursuant to this RFT, questions are to be submitted to the Niagara Region Contact.

3.6 Reserved Rights, Limitation of Liability and Governing Law

3.6.1 Reserved Rights of Niagara Region

Niagara Region reserves the right to

- (a) make public the names of any or all bidders;
- (b) request written clarification or the submission of supplementary written information in relation to the clarification request from any bidder and incorporate a bidder's response to that request for clarification into the bidder's bid;
- (c) assess a bidder's bid on the basis of

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

- (i) a financial analysis determining the actual cost of the bid when considering factors including quality, service, price and transition costs arising from the replacement of existing goods, services, practices, methodologies and infrastructure (howsoever originally established);
 - (ii) information provided by references;
 - (iii) the bidder's past performance under previous contracts with Niagara Region;
 - (iv) the information provided by a bidder pursuant to Niagara Region exercising its clarification rights under this RFT process; or
 - (v) other relevant information that arises during this RFT process;
- (d) waive formalities and accept bids that substantially comply with the requirements of this RFT;
 - (e) verify with any bidder or with a third party any information set out in a bid;
 - (f) check references other than those provided by any bidder;
 - (g) disqualify any bidder whose bid contains misrepresentations or any other inaccurate or misleading information;
 - (h) disqualify any bidder who has engaged in conduct prohibited by this RFT;
 - (i) make changes, including substantial changes, to this RFT provided that those changes are issued by way of addenda in the manner set out in this RFT;
 - (j) select a bidder other than the bidder whose bid reflects the lowest cost to Niagara Region;
 - (k) reject any bid that contains pricing which appears to be unbalanced or unreasonable;
 - (l) cancel this RFT process at any stage;
 - (m) cancel this RFT process at any stage and issue a new RFT for deliverables the same as or similar to the Deliverables;
 - (n) accept any bid in whole or in part; or
 - (o) reject any or all bids;

and these reserved rights are in addition to any other express rights or any other rights that may be implied in the circumstances.

PART 3 – TERMS AND CONDITIONS OF THE RFT PROCESS

3.6.2 Limitation of Liability

By submitting a bid, each bidder agrees that

- a) neither Niagara Region nor any of its employees, officers, agents, elected or appointed officials, advisors or representatives will be liable, under any circumstances, for any claim arising out of this RFT process including but not limited to costs of preparation of the bid, loss of profits, loss of opportunity or for any other claim; and
- b) the bidder waives any right to or claim for any compensation of any kind whatsoever, including claims for costs of preparation of the bid, loss of profits or loss of opportunity by reason of Niagara Region's decision not to accept the bid submitted by the bidder, to enter into a contract with any other bidder or to cancel this RFT process, and the bidder shall be deemed to have agreed to waive such right or claim.

3.6.3 Governing Law and Interpretation

The terms and conditions in this Part 3 – Terms and Conditions of RFT Process

- a) are included for greater certainty and are intended to be interpreted broadly and separately (with no particular provision intended to limit the scope of any other provision);
- b) are non-exhaustive (and shall not be construed as being intended to limit the pre-existing rights of the parties); and
- c) are to be governed by and construed in accordance with the laws of the province of Ontario and the federal laws of Canada applicable therein.

[End of Part 3]

Appendix A – Contract Terms and Conditions

The Contract for the Deliverables between the parties in respect of:

This tender provides for the Annual Inspection, Cleaning, Lubrication and Maintenance of Biogas Digester Trains for Waste Water Treatment Plants in the Niagara Region

means and is comprised of the following documents, which are collectively referred to as the “Contract”:

- a) the Purchase Order issued by Niagara Region inclusive of the the [Purchase Order Terms and Conditions](http://www.niagararegion.ca/business/) (<http://www.niagararegion.ca/business/>);
- b) the 2017-T-25 Annual Inspection, Cleaning, Lubrication and Maintenance of Biogas Digester Trains , including any addenda, (the “Solicitation Document”); and
- c) all the documentation submitted by the Supplier in response to the Solicitation Document (the “Supplier’s Submission”).

Save as specifically provided below, any ambiguity, conflict or inconsistency between or among the documents comprising the Contract will be resolved by giving precedence to the express terms of the documents in the order in which they appear above, so that a first mentioned document shall prevail notwithstanding any term or aspect of a later mentioned document. Notwithstanding the general precedence provided herein, the terms of this Appendix “A” shall take precedence over the definition of “Contract” contained in the Purchase Order Terms and Conditions noted above.

Similarly, the Insurance Provisions below herein shall take precedence over the Article 6.01 contained in the Purchase Order Terms and Conditions noted above:

The Supplier hereby agrees to put in effect and maintain insurance for the Term, at its own cost and expense, with insurers having a secure A.M. Best rating of B + or greater, or the equivalent, all the necessary and appropriate insurance that a prudent person in the business of the Supplier would maintain including, but not limited to, the following:

(a) Commercial General Liability Insurance

Commercial General Liability insurance for all Deliverables to a limit of not less than five million dollars (\$5,000,000) per occurrence.

The policy will be extended to include:

- Bodily injury, death and property damage

APPENDIX A – CONTRACT TERMS AND CONDITIONS
SCHEDULE 1 TO NIAGARA REGION FORM OF AGREEMENT

- Cross liability and severability of interest
- Blanket contractual
- Premises and operations
- Personal and advertising injury
- Broad form property damage
- Products and completed operations
- Owner’s and contractors protective
- Non-owned Automobile to a limit of not less than two million dollars (\$2,000,000)

The policy shall be endorsed to:

- Include Niagara Region as an additional insured; and
- Contain an undertaking by the insurers to give thirty (30) days prior written notice in the event that there is a material change in the foregoing policies or coverage affecting the Additional Insured(s) or cancellation of coverage before the expiration date of any of the foregoing policies.

(b) Automobile Insurance

Automobile Insurance (OAP1) for both owned and leased vehicles with inclusive limits of not less than two million dollars (\$2,000,000).

Proof of automobile insurance will not be required if the Supplier provides a signed letter stating that they do not own or lease vehicles.

F. Specific Provisions

F.1 Additional Insurance Requirements

The Supplier shall purchase and maintain at all times during the term of the Contract the additional insurance coverage listed below:

1. Professional/Errors and Omissions Liability

- a) Errors and Omissions insurance insuring the Supplier in an amount not less than TWO MILLION DOLLARS (\$2,000,000) per claim.
- b) The coverage under the Errors and Omissions policy shall be maintained continuously during the term of this Contract and for two (2) years after the termination or expiration of this Contract and shall cover insurable losses arising out of or in association with an error or omission in the rendering of or failure to render the Services. If coverage under the policy is cancelled within the two (2) year period after the termination or expiration of this Contract,

APPENDIX A – CONTRACT TERMS AND CONDITIONS
SCHEDULE 1 TO NIAGARA REGION FORM OF AGREEMENT

the Supplier shall provide Niagara Region with notice within thirty (30) days of cancellation and shall be required to purchase an extended reporting endorsement to confirm that coverage is maintained.

2. Other Insurance

Any other type (e.g. include under CGL policy - XCU, Asbestos, Sexual Abuse & Molestation, and/or Electronic Data/Cyber Liability Environmental), form or as otherwise may be required from time to time as identified at any time by either party.

F.2 Construction Lien

Not Applicable

F.3 Contractor Safety Program

The Supplier must comply with Niagara Region's [Contractor Safety Program #C3-H17](http://www.niagararegion.ca/business/tenders/compliance-with-standards.aspx) (<http://www.niagararegion.ca/business/tenders/compliance-with-standards.aspx>).

Failure to comply with this policy will result in termination of the Supplier.

Appendix B – Form of Tender

1. Bidder Information

Please fill out the following form, and name one person to be the contact for the RFT process and for any clarifications or communication that might be necessary.	
Full Legal Name of Bidder:	
Any Other Relevant Name under Which the Bidder Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Fax Number:	
Company Website (If Any):	
Bidder Contact Person and Title:	
Bidder Contact Phone:	
Bidder Contact Facsimile:	
Bidder Contact E-mail:	

2. Offer

The bidder has carefully examined the RFT documents and has a clear and comprehensive knowledge of the Deliverables required under the RFT. By submitting a bid, the bidder agrees and consents to the terms, conditions and provisions of the RFT, including the Contract Terms and Conditions and offers to provide the Deliverables in accordance therewith at the rates set out in the Pricing Form (Appendix C).

3. Rates

The bidder has submitted its rates in accordance with the instructions in the RFT and in the Pricing Form set out in Appendix C.

4. No Prohibited Conduct

The bidder declares that it has not engaged in any conduct prohibited by this RFT.

5. Conflict of Interest

The bidder has considered the definition of “Conflict of Interest” in Section 3.4 of the RFT and declares that there is no Conflict of Interest relating to the preparation of its bid, and no

APPENDIX B – FORM OF TENDER

foreseeable Conflict of Interest in performing the contractual obligations contemplated in the RFT.

6. Disclosure of Information

The bidder hereby agrees that any information provided in this bid, even if it is identified as being supplied in confidence, may be disclosed where required by law or if required by order of a court or tribunal. The bidder hereby consents to the disclosure, on a confidential basis, of this bid by Niagara Region to Niagara Region's advisers retained for the purpose of evaluating or participating in the evaluation of this bid.

7. Bid Irrevocable

The bidder agrees that its tender shall be irrevocable for a period of ninety (90) following the Submission Deadline.

8. Enter into Contract

The bidder agrees that in the event its bid is selected by Niagara Region, in whole or in part, it will enter into the Contract based on the term and conditions set out in Appendix A to this RFT in accordance with the terms of this RFT.

APPENDIX B – FORM OF TENDER

9. Addenda

The bidder is deemed to have read and accepted all addenda issued by Niagara Region prior to the Deadline for Issuing Addenda. The onus remains on bidders to make any necessary amendments to their bids based on the addenda. The bidder is requested to confirm that it has received all addenda by completing the statement below:

The bidder has received **addendum/addenda numbers** [] to [], inclusive, and all changes specified therein have been included in the bidder's pricing.

Bidders who fail to complete this section will be deemed to have received all posted addenda.

Signature of Witness

Signature of Bidder Representative

Name of Witness

Name of Bidder Representative

Title of Bidder Representative

Date

I have the authority to bind the bidder.

ORIGINAL SIGNATURES ONLY; NO ELECTRONIC

Appendix C – Pricing

1. Instructions on How to Complete Pricing Form

- (a) Rates shall be provided in Canadian funds, inclusive of all applicable duties and taxes except for Harmonized Sales Tax (HST), which should be itemized separately.
- (b) Rates quoted by the bidder shall be all-inclusive and shall include all labour and material costs, all travel and carriage costs, all insurance costs, all costs of delivery to Niagara Region, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law.
- (c) **All Locations must be bid on as the award intention is for one (1) legal entity.**

2. Evaluation of Pricing

The lump sum prices for Year One, Year Two, and Year Three will be added up per Location for a final extended total for All Three Years. The lowest stipulated Sub Total for All Three Years will be used for the purposes of evaluation.

3. Pricing Form

Please complete the Form of Tender – Pricing Page based on the required inspection, cleaning, lubrication and maintenance of Biogas Digester Train equipment listed in Appendix G.

APPENDIX C – PRICING FORM
 FORM OF TENDER - PRICING PAGE

Form of Tender – Pricing Page

I/We, the undersigned, **having the authority to bind the Company**, certify that I/We have examined INVITATION AND SUBMISSION INSTRUCTIONS, TERMS AND CONDITIONS OF THE RFT PROCESS & RFT PARTICULARS, and Form of Tender and having attended the mandatory site inspection on *(Tuesday August 29, 2017)*, do hereby offer and agree to enter into an agreement with the Regional Municipality of Niagara for the provision the Annual Inspection, Cleaning, Lubrication and Maintenance of Biogas Digester Trains as described herein:

Item No.	Location	Lump Sum (Year One) (a)	Lump Sum (Year Two) (b)	Lump Sum (Year Three) (c)	Extended Total (a + b + c)
1	NIAGARA FALLS WWTP	\$	\$	\$	\$
2	FORT ERIE WWTP	\$	\$	\$	\$
3	CRYSTAL BEACH WWTP	\$	\$	\$	\$
4	SEAWAY WWTP	\$	\$	\$	\$
5	WELLAND WWTP	\$	\$	\$	\$
6	PORT WELLER WWTP	\$	\$	\$	\$
7	PORT DALHOUSIE WWTP	\$	\$	\$	\$
8	GRIMSBY WWTP	\$	\$	\$	\$
Sub Total for All Three Years					\$
HST 13%					\$
TOTAL					\$

COMPANY:	SIGNATURE:
-----------------	-------------------

APPENDIX C – PRICING FORM
 LIST OF SUB-CONTRACTORS

LIST OF SUB-CONTRACTORS (If Applicable)

In the spaces provided below, please list those sub contractors you intend to use:

#	ORGANIZATION	CONTACT NAME	PHONE NUMBER
1.			
2.			
3.			
4.			

COMPANY:	SIGNATURE:
----------	------------

Appendix D – RFT Particulars

A. The Deliverables

1. Tasks

All work is to be completed by an Industrial Contractor licensed by the TSSA:

- I. Perform an Audit and Annual Inspection, Lubrication, Minor repairs, and cleaning of all equipment associated with the Biogas train (Appendix G). Cleaning and/or replacement of defective flame arresters where required as per Specification.
- II. Provide written assessments of defective equipment associated with digester and boiler bio-gas trains in Digesters and Boilers and shall be submitted immediately after inspection providing a follow up quote for repairs (within seven (7) business days).
- III. Upon completion of task II above, the successful bidder shall issue a report that validates the biogas train inspected to be compliant, non-compliant, and any other inspection status with current **B149 Digester Biogas Code**.
- IV. Following issue of a compliant report, the successful bidder shall append to the inventory of the inspected biogas train all components that were not listed. The successful bidder shall include the descriptive name of equipment, functional description, model, serial number. A non-compliant report must be supported by the applicable legislative of non-conformance.
- V. Equipment Audit:
To enable an audit to be successfully completed, an electronic copy in the format of Excel shall be provided to the successful bidder, listing all equipment currently on file for the inspected wastewater treatment plant biogas train (Appendix G). The successful bidder shall undertake an audit of equipment and correct or add any equipment or information found from the original listing with criteria outlined in task IV above.
- VI. Newly identified equipment:
If there is a piece of equipment found through inspection, through the decommissioned plants, or through new plants and are not identified on the equipment list supplied (Appendix G), it shall be included for inspection as per task 1 above, at a rate similar to preexisting equipment. Where a rate cannot be matched fully, then an equivalent rate is established. Amend record drawings with update, sign and date.
- VII. The appended list shall be returned to the project manager in its original electronic format that was issued. This returned equipment list shall include all appended equipment of biogas train.

APPENDIX D – RFT PARTICULARS

2. Mandatory Instructions

An inspection and report is the requirement of TSSA and must be provided to the Contract Administrator or delegated authority noting licence number of Tech who completed work. TSSA Certification Requirements are described in Mandatory Requirements.

All work must comply with latest amendment of all applicable relevant CSA Standards and Codes.

- Devices on existing Biogas Train shall be inspected and serviced on an annual basis.
- Servicing to include, audit, Inspection, cleaning, lubrication, and reinstallation where possible or in some cases in on-line units that cannot be removed. Operational equipment in service shall require special scheduling arrangements.
- All work shall be carried out by competent persons in an industrial environment with no less than 10 years' experience on Biogas certified by TSSA.

All work associated with digester and boiler bio-gas trains in Digesters and Boilers shall commence from the digester gas roof to the safety solenoid valve associated with the boiler.

This exercise shall also include work with the waste gas burner.

- All work shall include, but not be limited to, examining of the following:
 - a. pipes, valves, regulators, flame arrest, weights
 - b. up to and including boosters, pressure switches, compressors
 - c. removal (where possible) and cleaning
 - d. valve exercise, lubrication
 - e. All other as recommended by regulatory and in O&M Manuals.

3. Site Locations

The successful bidder will be provided with direct office contact details prior to work commencing.

	Locations
1	Niagara Falls WWTP, 3450 Stanley Ave North, Niagara Falls
2	Anger Ave WWTP 1 Anger Ave, Fort Erie
3	Crystal Beach WWTP 500 Ridgeway Rd, Crystal Beach

APPENDIX D – RFT PARTICULARS

4	Seaway WWTP 30 Prosperity Ave., Port Colborne
5	Welland WWTP 505 River Rd., Welland
6	Port Weller WWTP 18 Government Road, St. Catharines
7	Port Dalhousie WWTP 40 Lighthouse Rd., St. Catharines
8	Baker Road WWTP 347 Baker Rd. , Grimsby

B. Material Disclosures

The Region reserves the right at any time during the life of this duly executed contract to remove from the scope, an existing biogas train(s) when a plant has been decommissioned or taken out of operational service or other reasons resulting from Force Majeure, and / or add new biogas train(s) when a new plant has been commissioned or a previously out of service biogas train has been recommissioned.

In the event of a new biogas train, all identified equipment that comprise this new biogas train will be priced at identical unit costs for identical model and/or sized equipment for similar biogas trains that are in this scope. Where equipment is not an identical model and/or size to match the existing biogas trains, the Region shall negotiate a unit cost for said equipment.

In both of the above cases and their variants, the contract price shall be adjusted accordingly without penalty nor prejudice to either parties engaged in the binding service agreement

All items listed in Appendix G – Equipment Listings Per Location, are subject to change at any time.

C. Mandatory Requirements

1. Form of Tender (Appendix B)

Each bid must include a Form of Tender (Appendix B) completed and signed by an authorized representative of the bidder.

2. Pricing Form (Appendix C)

Each bid must include a Pricing Form (Appendix C) completed according to the instructions contained in the form.

APPENDIX D – RFT PARTICULARS

3. Bid Security

Not required

4. AODA Standards of Accessibility Compliance

Information and communications (without limitation, documents, materials and presentations) provided to Niagara Region as part of the Deliverables, which shall be posted to Niagara Region's website shall be provided in an AODA compliant format, specifically without limitation, meaning that the said documents must conform to World Wide Web Consortium Web Content Accessibility Guidelines (WCAG) 2.0 Level AA.

5. TSSA Certification Required

Each bid submission must include the TSSA Certifications described below.

Any Contractor staff performing the required services on the Biogas Train MUST be in possession of either or a combination of the following certification as per the latest amendment of Ontario Regulation 215/01 or meet the conditions for license holder stated below, which must be active and in good standing:

- Industrial Maintenance Technician (IMT) that must be employed by the Contractor
- A gas technician 1 (a "G.1 certificate").
- A gas technician 2 (a "G.2 certificate") who shall be supervised by a G.1 Certificate holder

Appendix E – Conditions of Award

The selected bidder must satisfy the following conditions and provide the following information within 14 days of the notice of selection:

1. Certificate of Insurance

The selected bidder must provide Niagara Region with a Certificate of Insurance acceptable to Niagara Region and, if requested by Niagara Region, certified copies of the insurance policies. The Certificate of Insurance must comply with the insurance requirements outlined in the Contract Terms and Conditions (Appendix A) and must be on [Niagara Region's form of Certificate of Insurance](http://www.niagararegion.ca/business/fpr/cert-insurance.aspx) (www.niagararegion.ca/business/fpr/cert-insurance.aspx), which can be found on Niagara Region's website –. If the Certificate of Insurance is provided in a non-original form (e.g. a facsimile, photocopy or scanned electronic copy), the bidder acknowledges and agrees that Niagara Region is fully entitled to treat any such Certificate as an original and that the bidder will be responsible for the accuracy and validity of the information contained therein. If required by Niagara Region, certified copies of all the above-mentioned policies shall be delivered to Niagara Region. All subsequent policy renewals and certificates of insurance thereafter, during the time that the Contract is in force, shall be forwarded to Niagara Region within fifteen (15) days of their renewal date.

2. Workplace Safety and Insurance Board Clearance

The selected bidder shall provide:

- a) A valid, current Clearance Certificate declaring that the selected bidder is registered with Workplace Safety and Insurance Board ("WSIB"), and has an account in good standing; or
- b) A Letter of Good Standing issued by WSIB.

If WSIB coverage is not required by law to be carried by the selected bidder, the selected bidder shall provide one of the following (as the case may be):

- a) An Exemption Letter from WSIB, satisfactory to Niagara Region's Director of Legal and Court Services;
- b) An Independent Operators Status Certificate issued by WSIB; or
- c) Such further and other evidence as may be satisfactory to Niagara Region's Director of Legal and Court Services.

In addition to the indemnification provided by the selected bidder elsewhere in this RFT, the selected bidder agrees to indemnify Niagara Region and its respective elected officials, directors, officers, agents, employees, and volunteers, successors and assigns for all losses, claims, expenses (including reasonable legal fees) or other charges related to the selected bidder's status with WSIB.

Appendix F – Bid Irregularities

Responses for Administering Irregularities Contained in Bids

	<u>IRREGULARITY</u>	<u>RESPONSE</u>
1.	Late Bids.	Automatic rejection. Returned unopened to the bidder.
2.	Unsealed Envelopes.	Automatic rejection.
3.	Insufficient Financial Security	
	A) No Bid Deposit, uncertified cheque, or financial security not an original (e.g. a photocopy or a facsimile of a financial security).	Automatic rejection.
	B) Amount of financial security is insufficient:	Automatic rejection.
	i. Amount of security is expressed as a percentage of the total bid sum.	Automatic rejection, unless in the opinion of Procurement and Strategic Acquisitions the insufficiency in the financial security is de minimus (trivial or insignificant).
	ii. Amount of security is expressed only as a dollar figure.	Automatic rejection.
	C) i. Name or signature of Supplier is missing or incomplete.	Automatic rejection.
	ii. Seal of Supplier is missing or incomplete.	Two (2) working days* to obtain missing or incomplete items.
	D) Name, signature, or seal of bonding company is missing or incomplete.	Automatic rejection.
	E) Failure to provide a letter of agreement to bond (if required).	Automatic rejection.
4.	Bid Document – execution	
	A) Bids completed in erasable medium.	Automatic rejection.
	B) i. Signature of representative authorized to bind the Supplier missing or incomplete on the prescribed form which is to be submitted in response to a Bid	Automatic rejection.

APPENDIX F – BID IRREGULARITIES

	<u>IRREGULARITY</u>	<u>RESPONSE</u>
	Solicitation.	
	ii. Electronic signature of representative or absence of corporate seal authorized to bind the Supplier shown on the prescribed form which is to be submitted in response to a Bid Solicitation.	Two (2) working days* to obtain original signature.
	C) Form of Proposal missing or incomplete.	Two (2) working days* to correct to the satisfaction of Procurement and Strategic Acquisitions, otherwise automatic rejection.
	D) Form of Quotation or Tender missing or incomplete.	Automatic rejection.
	E) Signature of witness, if required, missing or incomplete.	Two (2) working days* to correct, otherwise automatic rejection.
	F) Date of Bid missing or incomplete.	Two (2) working days* to correct, otherwise automatic rejection or, if stated in the Bid Solicitation, automatic rejection.
5.	Incomplete, illegible or obscure Bids or Bids which contain information not called for, erasures, overwriting or strike outs (not initialed).	Two (2) working days* to correct to the satisfaction of Procurement and Strategic Acquisitions, otherwise automatic rejection.
6.	Document, in which all necessary Addenda have not been acknowledged.	Two (2) working days* to confirm Bid to the satisfaction of Procurement and Strategic Acquisitions or, if stated in the Bid Solicitation, automatic rejection.
7.	Failure to attend mandatory site visit (if required).	Automatic rejection.
8.	Bid received on documents other than those provided in the Bid Solicitation.	Automatic rejection, unless allowed for in the Bid Solicitation.
9.	Failure to insert the bidder's business name in the space provided in the Bid Solicitation form.	Automatic rejection unless, in the opinion of Procurement and Strategic Acquisitions the incomplete nature is trivial or insignificant.
10.	Mathematical errors.	Two (2) working days* to initial the corrections as made by the Corporation. Unless otherwise stated in the Bid, the unit price shall prevail and the total Bid price shall be adjusted accordingly. The Corporation reserves the right to waive initialing and accept Bid as corrected.

APPENDIX F – BID IRREGULARITIES

	<u>IRREGULARITY</u>	<u>RESPONSE</u>
11.	Qualified Bids (Bids qualified or restricted by an attached statement).	Automatic rejection
12.	Bids containing minor obvious clerical errors.	Two (2) working days* to confirm Bid to the satisfaction of Procurement and Strategic Acquisitions.
13.	Any other irregularities.	The Commissioner of Enterprise Resource Management Services, or Designate, shall have authority to waive other irregularities or grant two (2) working days * to initial such other irregularities considered to be minor.

** Where “working days” specified, this is from the hour the Bidder is notified by Niagara Region staff of the irregularity

Appendix G: Equipment List by Location

2017-T-25 Appendix G: Equipment List by Location

Location 1: Niagara Falls WWTP Equipment	
No.	Asset
1	Asset 000016805 - Flame Arrester
2	No Asset - Regulator
3	No Asset - Check Valve 1
4	No Asset - Auto Shut Off Valve
5	No Asset - Auto Shut Off Valve
6	No Asset - Check Valve 2
7	No Asset - Isolation Valve
8	No Asset - Test Firing Valve
9	Asset 000016806 - Flame Arrester
10	No Asset - Regulator
11	No Asset - Check Valve 1
12	No Asset - Auto Shut Off Valve
13	No Asset - Auto Shut Off Valve
14	No Asset - Check Valve 2
15	No Asset - Isolation Valve
16	No Asset - Test Firing Valve
17	No Asset - Access Hatch
18	No Asset - Dome Housing
19	Asset 000016815 - Flame Arrester
20	Asset 000016816 - Flame Arrester
21	No asset - Monometer
22	Asset 000017465 - Pressure and Vacuum Relief Valve
23	Asset 000017466 - Pressure and Vacuum Relief Valve
24	No Asset - Purge Valve
25	No Asset - Sampling Hatch
26	Asset 000017473 - 3 Way Valve
27	No Asset - Isolation Valve
28	No Asset - Isolation Valve
29	No Asset - Access Hatch
30	No Asset - Dome Housing
31	Asset 000016817 - Flame Arrester
32	Asset 000016818 - Flame Arrester
33	No Asset - Manometer
34	Asset 000017467 - Pressure and Vacuum Relief Valve
35	Asset 000017468 - Pressure and Vacuum Relief Valve
36	No Asset - Purge Valve
37	No Asset - Sampling Hatch
38	Asset 000017474 - 3 Way Valve
39	Asset 000017482 - Isolation Valve
40	No Asset - Isolation Valve
41	No Asset - Dome Housing
42	Asset 000016819 - Flame Arrester
43	No Asset - Manometer
44	Asset 000017469 - Pressure and Vacuum Relief Valve
45	No Asset - Dome Housing
46	Asset 000016807 - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

47	Asset 000016808 - Flame Arrester
48	No Asset - Pressure and Vacuum
49	No Asset - Pressure and Vacuum
50	No Asset - Purge Valves
51	No Asset - Sampling Hatch
52	Asset 000017476 - 3 Way Valve
53	No Asset - Isolation Valve
54	No Asset - Isolation Valve
55	No Asset - Pressure Relief (Explosion Proof) Valve
56	No Asset - Isolation Valve
57	No Asset - Isolation Valve
58	No Asset - Isolation Valve
59	No Asset - Isolation Valve
60	No Asset - Isolation Valve
61	No Asset - Isolation Valve
62	Asset 000017390 - Check Valve
63	Asset 000017388 - Check Valve
64	No Asset - MRSSOV-Manual Reset Safety Shut Off Valve
65	No Asset - Pressure Control Valve
66	Asset 000017391 - Isolation Valve
67	Asset 000017384 - Isolation Valve
68	No Asset - Rotary Lobe Gas Pump
69	No Asset - Manual Drip Trap
70	Asset 000016264 - Manual Drip Trap
71	No Asset - Pressure Switch
72	No Asset - Pressure Switch
73	No Asset - Temperature Switch
74	Asset 000017401 - Check Valve
75	Asset 000017399 - Check Valve
76	No Asset - MRSSOV-Manual Reset Safety Shut Off Valve
77	No Asset - Pressure Control Valve
78	Asset 000017402 - Isolation Valve
79	Asset 000017395 - Isolation Valve
80	No Asset - Rotary Lobe Gas Pump
81	No Asset - Manual Drip Trap
82	No Asset - Manual Drip Trap
83	No Asset - Pressure Switch
84	No Asset - Pressure Switch
85	No Asset - Temperature Switch
86	Asset 000017412 - Check Valve
87	Asset 000017410 - Check Valve
88	No Asset - MRSSOV-Manual Reset Safety Shut Off Valve
89	No Asset - Pressure Control Valve
90	Asset 000017413 - Isolation Valve
91	Asset 000017406 - Isolation Valve
92	No Asset - Rotary Lobe Gas Pump
93	No Asset - Manual Drip Trap
94	Asset 000016269 - Manual Drip Trap

2017-T-25 Appendix G: Equipment List by Location

95	Asset 000038047 - Flame Arrester
96	No Asset - Isolation Valve
97	No Asset - Isolation Valve
98	No Asset - Manual Drip Trap
99	Asset 000038048 - Check Valve
100	Asset 000038048 - Check Valve
101	Asset 000038049 - Check Valve
102	No Asset - Sediment & Condensate/Continuous Flow Trap
103	No Asset - Isolation Valve
104	No Asset - Isolation Valve
105	No Asset - Manual Drip Trap
106	No Asset - Isolation Valve
107	No Asset - Isolation Valve
108	No Asset - Flame Arrester
109	No Asset - Isolation Valve
110	No Asset - Manual Drip Trap
111	No Asset - Check Valve
112	Asset 000016810 - Flame Arrester
113	No Asset - Thermal Valve
114	No Asset - Sediment & Condensate/Continuous Flow Trap
115	No Asset - Isolation Valve
116	No Asset - Isolation Valve
117	No Asset - Isolation Valve
118	No Asset - Check Valve
119	No Asset - Flame Arrester
120	No Asset - Thermal Valve
121	No Asset - Sediment & Condensate/Continuous Flow Trap
122	No Asset - Isolation Valve
123	No Asset - Manual Drip Trap
124	Asset 000017419 - Flame Arrester
125	Asset 000016812 - Flame Arrester
126	No Asset - Thermal Valve
127	No Asset - Sediment & Condensate/Continuous Flow Trap
128	No Asset - Isolation Valve
129	Asset 000017416 - Isolation Valve
130	No Asset - Sediment & Condensate/Continuous Flow Trap
131	No Asset - Isolation Valve
132	No Asset - Isolation Valve
133	No Asset - Manual Drip Trap
134	No Asset - Manual Drip Trap
135	No Asset - Isolation Valve
136	Asset 000017431 - Check Valve
137	No Asset - MRSSOV-Manual Reset Safety Shut Off Valve
138	Asset 000003763 - Gas Booster
139	No Asset - Pressure Switch
140	No Asset - Pressure Switch
141	No Asset - Pressure Switch
142	No Asset - Manual Drip Trap

2017-T-25 Appendix G: Equipment List by Location

143	No Asset - Manual Drip Trap
144	No Asset - Isolation Valve
145	Asset 000017432 - Check Valves
146	No Asset - MRSSOV-Manual Reset Safety Shut Off Valve
147	Asset 000003765 - Gas Booster
148	No Asset - Pressure Switch
149	No Asset - Pressure Switch
150	No Asset - Pressure Switch
151	No Asset - Isolation Valve
152	No Asset - Isolation Valve
153	No Asset - Isolation Valve
154	No Asset - Isolation Valve
155	No Asset - Isolation Valve
156	No Asset - Isolation Valve
157	No Asset - Drip Trap 1
158	No Asset - Drip Trap 2
159	No Asset - Inspection Spool
160	No Asset - Isolation Valve 1
161	No Asset - Isolation Valve 2
162	No Asset - Isolation Valve 6
163	No Asset - Isolation Valve 4
164	No Asset - Isolation Valve 5
165	No Asset - Isolation Valve 3
166	No Asset - Flame Arrester
167	No Asset - Flame Arrester
168	No Asset - Thermal Valve
169	No Asset - Isolation Valve
170	Asset 000017341 - Back Pressure Regulator
171	No Asset - Drain Valve
172	No Asset - Drip Trap
173	No Asset - Isolation Valve
174	No Asset - Isolation Valve
175	No Asset - Isolation Valve
176	Asset 000017004 - Manometer
177	No Asset - Pressure Switch 1
178	No Asset - Pressure Switch 2
179	No Asset - Waste Gas Burner
Location 2: Fort Erie WWTP Equipment	
No.	Asset
1	Asset 000002570 - Boiler
2	Asset 000038002 - ASSOV 1
3	Asset 000038003 - ASSOV 2
4	Asset 000003095 - Boiler
5	Asset 000002430 - Flame Arrester
6	Asset 000029360 - Isolation Valve
7	Asset 000038004 - Pressure Switch - High
8	Asset 000038005 - Pressure Switch - Low
9	Asset 000038006 - Test Firing Valve

2017-T-25 Appendix G: Equipment List by Location

10	No Asset - Access Hatch
11	No Asset - Dome Housing
12	Asset 000038015 - Manual Drip Trap
13	Asset 000002431 - Flame Arrester
14	Asset 000002432 - Flame Arrester
15	Asset 000038016 - Isolation Valve
16	Asset 000038017 - Isolation Valve
17	Asset 000038018 - Isolation Valve
18	Asset 000038019 - Isolation Valve
19	Asset 000029411 - Manometer
20	Asset 000003140 - Pressure and Vacuum Relief Valve
21	Asset 000003139 - Pressure and Vacuum Relief Valve
22	Multiple Assets - Purge Valves
23	Multiple Assets - Purge Valves
24	Asset 000019255 - Digester
25	Asset 000003001 - Sediment and Condensate Trap
26	Asset 000003235 - Valve 3-Way
27	No asset - Access Hatch
28	No asset - Dome Housing
29	Asset - 000038028 Manual Drip Trap
30	Asset - 000002433 - Flame Arrester
31	Asset - 000002434 - Flame Arrester
32	Asset - 000038029 - Isolation Valve
33	Asset - 000038030 - Isolation Valve
34	Asset - 000038031 - Isolation Valve
35	Asset - 000029412 - Manometer
36	Asset - 000003141 - Pressure and Vacuum Relief Valve
37	Asset - 000003142 - Pressure and Vacuum Relief Valve
38	Multiple Assets - Purge Valves
39	Multiple Assets - Purge Valves
40	Asset 000003002 - Sediment And Condensate Trap
41	Asset 000003236 - Valve- 3-Way
42	Asset 000038041- Pressure Switch and Transducer
43	No Asset - Digester Gas Piping System
44	No Asset - Doors, Ventilation and Gas Detection System
45	Asset 000002787 - Gas Booster
46	Asset 000029363 - ASSO
47	Asset 000038007 - Isolation Valve
48	Asset 000038008 - Isolation Valve
49	Asset 000038009 - Isolation Valve
50	Asset 000038010 - Pressure Switch - High
51	Asset 000038011 - Pressure Switch - Low
52	Multiple Assets - Isolation Valves
53	Asset 000038014 - Regulator
54	No Asset - Access Hatch
55	No Asset - Dome Housing
56	Asset 000002435 - Flame Arrester
57	Asset 000002436 - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

58	Asset 000038040 - Isolation Valve
59	Asset 000003143 - Pressure and Vacuum Relief Valve
60	Asset 000003144 - Pressure and Vacuum Relief Valve
61	Multiple Assets - Purge Valves
62	No Asset - Sampling Hatch
63	Asset 000003237 - Valve - 3 Way
64	Asset 000003463 - Waste Gas Burner
65	Asset 000002437 - Flame Arrester
66	Asset 000037999 - Isolation Valve
67	Asset 000038000 - Isolation Valve
68	Asset 000037998 - Purge Valve
69	Asset 000038001 - Regulator
70	Asset 000003232 - Thermal Valve

Location 3: Crystal Beach WWTP Equipment

No.	Asset
1	No Asset - Condensate Sediment Trap
2	Asset 000019814 - Flame Arrester
3	No Asset - Gas Filter
4	No Asset - Isolation Valve
5	No Asset - Manual Trap
6	No Asset - Manual Trap
7	No Asset - Manual Trap
8	No Asset - Thermal Valve
9	Multiple Assets - Flame Arresters
10	No Asset - Manometer
11	No Asset - Access Hatch
12	Asset 000019812 - Flame Arrester
13	Asset 000019811 - Flame Arrester
14	No Asset - Pressure and Vacuum Relief Valve
15	No Asset - Pressure and Vacuum Relief Valve
16	No Asset - Pressure Switch
17	No Asset - Pressure Switch
18	No Asset - Pressure Switch
19	No Asset - Pressure Switch
20	No Asset - Pressure Transmitter
21	No Asset - Sampling Hatch
22	No Asset - Swivel Joint
23	No Asset - Valve, 3-Way
24	No Asset - Isolation Valve
25	No Asset - Manual Drip Trap
26	No Asset - Manual Drip Trap
27	No Asset - Compressor
28	No Asset - ASSOVS
29	No Asset - Check Valve
30	No Asset - Flow Meter
31	No Asset - Pressure Switch
32	No Asset - Isolation Valve
33	No Asset - Isolation Valve

2017-T-25 Appendix G: Equipment List by Location

34	No Asset - Pressure Switch
35	No Asset - Lubricator
36	No Asset - Motor
37	No Asset - Pressure Relief Valve
38	No Asset - Isolation Valve
39	No Asset - Temperature Switch
40	No Asset - Manual Drip Trap
41	No Asset - Manual Drip Trap
42	No Asset - Compressor
43	No Asset - ASSOVS
44	No Asset - Check Valve
45	No Asset - Pressure Switch
46	No Asset - Isolation valve
47	No Asset - Isolation Valve
48	No Asset - Pressure Switch
49	No Asset - Lubricator
50	No Asset - Motor
51	No Asset - Pressure Relief Valve
52	No Asset - Isolation Valve
53	No Asset - Temperature Switch
54	No Asset - Waste Gas Burner
55	Asset 000019813 - Flame Arrester
56	No Asset - Flame Arrester
57	No Asset - Thermal Valve
58	No Asset - ASSOVS
59	No Asset - Regulator
60	No Asset - Condensate Sediment Trap
61	Asset 000019815 - Flame Arrester
62	No Asset - Flow Transmitter
63	No Asset - Isolation Valve
64	No Asset - Isolation Valve
65	No Asset - Inspection Spool
66	No Asset - Isolation Valve
67	No Asset - Manual Trap
68	No Asset - Manual Trap
69	No Asset - Pressure Switch
70	No Asset - Thermal Valve

Location 4: Seaway WWTP Equipment

No.	Asset
1	No Asset - Isolation Valve
2	No Asset - Purge Point Valves
3	Asset 000012287 - Back Pressure Regulator
4	Asset 000005073 - Boiler
5	No Asset - ASSOVS
6	No Asset - ASSOVS
7	No Asset - Check Valve
8	No Asset - Isolation Valve 1
9	No Asset - Isolation Valve 2

2017-T-25 Appendix G: Equipment List by Location

10	No Asset - Isolation Valve 3
11	Asset 000038579 - Flame Arrester
12	No Asset - Pressure Regulator
13	No Asset - Pressure Switch 1
14	No Asset - Pressure Switch 2
15	No Asset - Pressure Switch 3 High
16	No Asset - Purge Point Valves
17	Asset 000005074 - Boiler
18	No Asset - ASSOV
19	No Asset - ASSOV
20	No Asset - Check Valve
21	No Asset - Isolation Valve 1
22	No Asset - Isolation Valve 2
23	No Asset - Isolation Valve 3
24	Asset 000038580 - Flame Arrester
25	No Asset - Pressure Regulator
26	No Asset - Pressure Switch 1
27	No Asset - Pressure Switch 2
28	No Asset - Pressure Switch 3 - High
29	No Asset - Purge Point Valves
30	No Asset - Isolation Valve
31	No Asset - Access Hatch
32	No Asset - Dome Housing
33	Asset 000005082 - Flame Arrester
34	Asset 000005083 - Flame Arrester
35	No Asset - Isolation Valve
36	No Asset - Pressure and Vacuum Relief Valve
37	No Asset - Pressure and Vacuum Relief Valve
38	No Asset - Sampling Hatch
39	No Asset - 3 Way Valve
40	No Asset - Dome Housing
41	Asset 000005088 - Flame Arrester
42	Asset 000005087 - Flame Arrester
43	No Asset - Isolation Valve
44	No Asset - Pressure and Vacuum Relief Valve
45	No Asset - Pressure and Vacuum Relief Valve
46	No Asset - Isolation Valve
47	No Asset - Sampling Hatch
48	No Asset - 3 Way Valve
49	Service Report
50	No Asset - Flame Arrester
51	No Asset - Pressure Relief Valve
52	No Asset - Manual Drip Trap
53	Asset 000005100 - Gas Booster
54	No Asset - ASSOV
55	No Asset - Sediment and Condensate Continuous Flow Trap
56	No Asset - Check Valve
57	Asset 000013491 - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

58	No Asset - Mass Flow Element 15-2
59	No Asset - Isolation Valve
60	No Asset - Isolation Valve
61	No Asset - Manual Drip Trap
62	No Asset - Pressure Switch Digester Gas Change Over
63	No Asset - Pressure Switch
64	No Asset - Pressure Switch
65	No Asset - Pressure Switch
66	No Asset - Pressure Transmitter
67	No Asset - Thermal Valve
68	No Asset - Manual Drip Trap
69	Asset 000032517 - Gas Compressor
70	No Asset - ASSOV
71	No Asset - Regulator
72	No Asset - Check Valve
73	No Asset - Sediment and Condensate Continuous Flow Trap
74	Asset 000013489 - Flame Arrester
75	No Asset - Manual Drip Trap
76	No Asset - Isolation Valve
77	No Asset - Isolation Valve
78	No Asset - Gas Compressor Motor
79	No Asset - Pressure Switch
80	No Asset - Pressure Switch - Low
81	No Asset - Purge Point valves
82	No Asset - Temperature Switch
83	No Asset - Thermal Valve
84	No Asset - Manual Drip Trap
85	Asset 000005101 - Gas Compressor
86	No Asset - ASSOV
87	No Asset - Regulator
88	No Asset - Check Valve
89	No Asset - Sediment and Condensate Continuous Flow Trap
90	Asset 000013490 - Flame Arrester
91	No Asset - Manual Drip Trap
92	No Asset - Isolation Valve
93	No Asset - Isolation Valve
94	No Asset - Gas Compressor Motor
95	No Asset - Pressure Switch
96	No Asset - Pressure Switch - Low
97	No Asset - Purge Point Valve
98	No Asset - Temperature Switch
99	No Asset - Thermal Valve
100	No Asset - Gas Flow Meter
101	No Asset - Manometer
102	No Asset - Manometer
103	No Asset - Manometer - Booster Inlet
104	No Asset - Manometer
105	No Asset - Ventilation System

2017-T-25 Appendix G: Equipment List by Location

106	No Asset - Waste Gas Burner
107	No Asset - Flame Arrester
108	No Asset - Isolation Valve
109	No Asset - Thermal Valve
Location 5: Welland WWTP Equipment	
No.	Asset
1	No Asset - Isolation Valve
2	No Asset - Isolation Valve
3	No Asset - Sediment Tank and Continuous Flow Trap
4	No Asset - Isolation Valve
5	No Asset - Isolation Valve
6	No Asset - Isolation Valve
7	No Asset - Isolation Valve
8	No Asset - Isolation Valve
9	No Asset - Boiler
10	No Asset - ASSOV 1
11	No Asset - ASSOV 1
12	No Asset - Check Valve
13	No Asset - Check Valve
14	No Asset - Flame Arrester
15	No Asset - Isolation Valve
16	No Asset - Pressure Switch
17	No Asset - Pressure Switch
18	No Asset - Pressure Switch
19	No Asset - Regulator
20	No Asset - Y Strainer
21	No Asset - Isolation Valve - Gear Operated (Test Firing Valve)
22	No Asset - Boiler
23	No Asset - ASSOV
24	No Asset - ASSOV
25	No Asset - Check Valve
26	No Asset - Check Valve
27	No Asset - Flame Arrester
28	No Asset - Isolation Valve
29	No Asset - Pressure Switch
30	No Asset - Pressure Switch
31	No Asset - Pressure Switch
32	No Asset - Regulator
33	No Asset - Strainer
34	No Asset - Isolation Valve - Gear Operated (Test Firing Valve)
35	No Asset - Isolation Valve
36	No Asset - Isolation Valve
37	No Asset - Isolation Valve
38	No Asset - Gas Recirculation Compressor 1
39	No Asset - ASSOV
40	No Asset - Check Valve
41	No Asset - Continuous Flow Trap
42	No Asset - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

43	No Asset - Gas/Liquid Separator
44	No Asset - Isolation Valve
45	No Asset - Isolation Valve
46	No Asset - Isolation Valve
47	No Asset - Isolation Valve
48	No Asset - Isolation Valve
49	No Asset - Water Trap - Discharge
50	No Asset - Pressure Relief Valve
51	No Asset - Pressure Switch
52	No Asset - Pressure Switch
53	No Asset - Sediment Tank
54	No Asset - Temperature Switch
55	No Asset - Thermal Valve
56	No Asset - Isolation Valve
57	No Asset - Gas Recirculation Compressor 1
58	No Asset - ASSOV
59	No Asset - Check Valve
60	No Asset - Continuous Flow Trap
61	Asset 000010005 - Flame Arrester
62	No Asset - Gas/Liquid Separator
63	No Asset - Isolation Valve
64	No Asset - Isolation Valve
65	No Asset - Isolation Valve
66	No Asset - Isolation Valve
67	No Asset - Liquid Drainer
68	No Asset - Manometer
69	No Asset - Pressure Relief Valve
70	No Asset - Pressure Switch
71	No Asset - Pressure Switch
72	No Asset - Sediment Tank
73	No Asset - Temperature Switch
74	No Asset - Thermal Valve
75	Service Report
76	No Asset - Doors and Ventilation
77	No Asset - Pressure Transmitters, Switches and Flow Meters
78	No Asset - Primary Digester Tank
79	No Asset - Access Hatch Lid
80	No Asset - Flame Arrester
81	No Asset - Flame Arrester
82	No Asset - Isolation Valve
83	No Asset - Isolation Valve
84	No Asset - Pressure and Vacuum Relief Valve
85	No Asset - Pressure and Vacuum Relief Valve
86	No Asset - Purge Valves
87	No Asset - Purge Valves
88	No Asset - Sampling Hatch
89	No Asset - Valve 3-way
90	No Asset - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

91	No Asset - Flame Arrester
92	No Asset - Isolation Valve
93	No Asset - Pressure and Vacuum Relief Valve
94	No Asset - Pressure and Vacuum Relief Valve
95	No Asset - Purge Point Valves
96	No Asset - Purge Valves
97	No Asset - Sampling Hatch
98	No Asset - Swivel Joints
99	No Asset - Valve 3 Way
100	No Asset - Access Hatch Lid
101	No Asset - Dome Housing
102	No Asset - Flame Arrester
103	No Asset - Flame Arrester
104	No Asset - Isolation Valve
105	No Asset - Pressure and Vacuum Relief Valve
106	No Asset - Pressure and Vacuum Relief Valve
107	No Asset - Purge Valves
108	No Asset - Sampling Hatch
109	No Asset - Swivel Joints
110	No Asset - Valve 3-way
111	No Asset - Waste Gas Burner
112	No Asset - Isolation Valve
113	No Asset - Flame Arrester
114	No Asset - Isolation Valve
115	No Asset - Flame Check
116	No Asset - Thermal Valve
117	No Asset - Back Pressure Regulator
118	No Asset - Continuous Flow Trap
119	No Asset - Continuous Flow Trap
120	No Asset - Sediment Tank
121	No Asset - Mass Flow Meter
122	No Asset - Isolation Valve
123	No Asset - Isolation Valve
124	No Asset - Inspection Spool
125	No Asset - Pressure Switch

Location 6: Port Weller WWTP Equipment

No.	Asset
1	No Asset - Check Valve
2	No Asset - Check Valve
3	No Asset - Check Valve
4	No Asset - Check Valve
5	Asset 000004211 - Flame Arrester
6	Asset 000004210 - Flame Arrester
7	No Asset - Flame Arrester
8	No Asset - Flame Arrester
9	Asset - 000004208 - Flame Arrester
10	Asset - 000004207 - Flame Arrester
11	Asset - 000004206 - Flame Arrester

2017-T-25 Appendix G: Equipment List by Location

12	Asset - 000004205 - Flame Arrester
13	No Asset - Flame Arrester
14	No Asset - Flame Arrester
15	No Asset - Isolation Valve
16	No Asset - Isolation Valve
17	No Asset - Isolation Valve
18	No Asset - Isolation Valve
19	No Asset - Isolation Valve
20	No Asset - Isolation Valve
21	No Asset - Isolation Valve
22	No Asset - Isolation Valve
23	No Asset - Isolation Valve
24	No Asset - Isolation Valve
25	No Asset - Isolation Valve
26	No Asset - Isolation Valve
27	No Asset - Isolation Valve
28	No Asset - Purge Point Valves
29	No Asset - Isolation Valves
30	No Asset - Isolation Valves
31	No Asset - Access Lid x2
32	No Asset - Dome Lid
33	No Asset - Dome Lid
34	Asset 000004673 - Pressure/Vacuum Relief Valve
35	Asset 000004672 - Pressure/Vacuum Relief Valve
36	Asset 000004670 - Pressure/Vacuum Relief Valve
37	Asset 000004671 - Pressure/Vacuum Relief Valve
38	No asset - Pressure Gauge
39	No asset - Pressure Relief Lid
40	Asset 000028148 - Pressure Regulator
41	No Asset - Change Over Valve - 3 Way
42	No Asset - Change Over Valve - 3 Way
43	No Asset - Thermal Valve
44	No Asset - Thermal Valve
45	No Asset - Thermal Valve
46	No Asset - Condensate Trap
47	No Asset - Condensate Trap
48	No Asset - Condensate Trap
49	No Asset - Condensate Trap
Location 7: Port Dalhousie WWTP Equipment	
No.	Asset
1	No Asset - Ball Valve
2	Asset 000001745 - Flame Arrester
3	No Asset - Thermal Valve
4	No Asset - Plug Valve
5	No Asset - Ball Valve
6	No Asset - Flow Meter
7	No Asset - Pressure Gauge
8	No Asset - Plug Valve

2017-T-25 Appendix G: Equipment List by Location

9	No Asset - Plug Valve
10	No Asset - Pressure Gauge
11	No Asset - Plug Valve
12	No Asset - Thermal Valve
13	No Asset - Plug Valve
14	Asset 000023074 - Flow Meter
15	No Asset - Moisture and Sediment Trap
16	No Asset - Moisture Trap
17	No Asset - Ball Valve
18	Asset 000023038 - Flame Arrester
19	No Asset - Thermal Trap
20	No Asset - Plug Valve
21	No Asset - Shut Off Valve
22	Asset 000023076 - Flow Meter
23	No Asset - Ball Valve
24	No Asset - Plug Valve
25	No Asset - Moisture Trap
26	No Asset - Thermal Valve
27	Asset 000001748 - Flame Arrester
28	No Asset - Moisture and Sediment Trap
29	No Asset - Moisture and Sediment Trap
30	No Asset - Plug Valve
31	No Asset - Pressure Gauge
32	No Asset - Plug Valve
33	No Asset - Plug Valve
34	No Asset - Plug Valve
35	No Asset - Plug Valve
36	No Asset - Plug Valve
37	No Asset - Plug Valve
38	No Asset - Plug Valve
39	No Asset - Pressure Gauge
40	No Asset - Plug Valve
41	No Asset - Plug Valve
42	No Asset - Drain Trap
43	No Asset - Moisture and Sediment Trap
44	No Asset - Flow Meter
45	No Asset - Plug Valve
46	No Asset - Plug Valve
47	No Asset - Plug Valve
48	No Asset - Plug Valve
49	No Asset - Plug Valve
50	No Asset - Plug Valve
51	No Asset - Plug Valve
52	No Asset - Plug Valve
53	No Asset - Plug Valve
54	No Asset - Pressure Gauge
55	No Asset - Isolation Valve
56	No Asset - Plug Valve

2017-T-25 Appendix G: Equipment List by Location

57	No Asset - Purge Valve
58	No Asset - Flow Meter
59	Asset 000001744 - Flame Arrester
60	No Asset - Thermal Valve
61	No Asset - Plug Valve
62	No Asset - Isolation Valve
63	No Asset - Plug Valve
64	No Asset - Plug Valve
65	No Asset - Moisture and Sediment Trap
66	No Asset - Moisture and Sediment Trap
67	No Asset - Drain Shut Off
68	Asset 000001743 - Flame Arrester
69	No Asset - Thermal Valve
70	No Asset - Plug Valve
71	No Asset - Moisture and Sediment Trap
72	No Asset - Moisture Trap
73	Asset 000001749 - Flame Arrester
74	No Asset - Moisture Trap
75	No Asset - Pressure Regulator
76	No Asset - Drain Valve
77	No Asset - Isolation valve
78	No Asset - Thermal Valve
79	No Asset - Pressure Alarm Switch
80	No Asset - Plug Valve
81	No Asset - Ball Valve
82	No Asset - Ball Valve
83	No Asset - Ball Valve
84	No Asset - Moisture Trap
85	No Asset - Thermal Valve
86	No Asset - Flow Meter
87	No Asset - Pressure Gauge
88	No Asset - Moisture and Sediment Trap
89	No Asset - Moisture Trap
90	No Asset - Drain Valve
91	No Asset - Flame Arrester
92	Asset 000001158 - Boiler
93	Asset 000001160 - Boiler
94	No Asset - Multiple Plug Valves
95	No Asset - Plug Valve
96	No Asset - Plug Valve
97	No Asset - Plug Valve
98	No Asset - Plug Valve
99	No Asset - Plug Valve
100	No Asset - Plug Valve
101	No Asset - Plug Valve
102	No Asset - Plug Valve
Location 8: Grimsby WWTP Equipment	
No.	Asset

2017-T-25 Appendix G: Equipment List by Location

1	Asset 000018512 - Vacuum and Pressure Relief valve
2	Asset 000008242 - Flame Arrester
3	Asset 000018398 - Flame Arrester
4	Asset 000018399 - Flame Arrester
5	Asset 000018400 - Flame Arrester
6	Asset 000018401 - Flame Arrester
7	Asset 000018491 - Regulator
8	Asset 000018509 - Pressure and Vacuum Relief Valve
9	Asset 000018510 - Pressure and Vacuum Relief Valve
10	Asset 000018511 - Pressure and Vacuum Relief Valve
11	No Asset - Access Lids
12	No Asset - Access Lids
13	No Asset - Access Lids
14	No Asset - Access Lids
15	No Asset - Dome Lid
16	No Asset - Dome Lid
17	No Asset - ASSO V 1
18	No Asset - ASSO V 2
19	No Asset - Change Over Valve
20	No Asset - Change Over Valve
21	No Asset - Check Valve
22	No Asset - Check Valve
23	No Asset - Check Valve
24	No Asset - Check Valve
25	No Asset - Check Valve
26	No Asset - Flame Arrester
27	No Asset - Flame Arrester
28	No Asset - Flame Arrester
29	No Asset - Flame Arrester
30	No Asset - Flame Arrester
31	No Asset - Isolation Valve
32	No Asset - Isolation Valve
33	No Asset - Isolation Valve
34	No Asset - Isolation Valve
35	No Asset - Isolation Valve
36	No Asset - Isolation Valve
37	No Asset - Isolation Valve
38	No Asset - Isolation Valve
39	No Asset - Isolation Valve
40	No Asset - Isolation Valve
41	No Asset - Isolation Valve
42	No Asset - Isolation Valve
43	No Asset - Isolation Valve
44	No Asset - Isolation Valve
45	No Asset - Manual Drip Trap
46	No Asset - Manual Drip Trap
47	No Asset - Manual Drip Trap
48	No Asset - Manual Drip Trap

2017-T-25 Appendix G: Equipment List by Location

49	No Asset - Manual Drip Trap
50	No Asset - Manual HP Trap
51	No Asset - Manual HP Trap
52	No Asset - Purge Point Valves (x5)
53	No Asset - Purge Point Valves (x5)
54	No Asset - Purge Point Valves (x5)
55	No Asset - Purge Point Valves (x2)
56	No Asset - Purge Point Valves (x2)
57	No Asset - Sample Hatch
58	No Asset - Sample Hatch
59	No Asset - Sample Hatch
60	No Asset - Sample Hatch
61	No Asset - Manual HP Trap
62	No Asset - Sediment Tank
63	No Asset - Sediment Tank
64	No Asset - Thermal Valve
65	No Asset - Thermal Valve
66	No Asset - Thermal Valve